SEQUENCE LISTING

<110> Kubo, Ralph T.
      Grey, Howard
      Sette, Alessandro
      Celis, Esteban
      Southwood, Scott

<120> HLA BINDING PEPTIDES AND THEIR USES

<130> 399632000420

<140> 09/017,524
<141> 1998-02-03

<150> 08/347,610
<151> 1994-12-01

<150> 08/159,339
<151> 1993-11-29

<150> 08/103,396
<151> 1993-08-06

<150> 08/027,746
<151> 1993-03-05

<150> 08/926,666
<151> 1992-08-07

<150> 08/589,107
<151> 1996-01-23

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4

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 1                5                    10


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 1                5


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 1                5                    10
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E2

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 1               5                   10


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 1               5                   10
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr
 1               5


<210> 90
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (3)...(3)
<223> Xaa = Asp, Glu, Ala or Ser

<400> 90
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr
 1               5               10


<210> 91
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (3)...(3)
<223> Xaa = Asp, Glu, Ala or Ser

<400> 91
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr
 1               5               10


<210> 92
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E2

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Val, Ile, Ser, Ala, Thr, Phe, Cys,
      Gly or Asp

<221> VARIANT
<222> (8)...(8)
<223> Lys, Tyr, Arg, His or Phe

<400> 92
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 93
<211> 9
<212> PRT
<213> Homo sapiens

E2

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Val, Ile, Ser, Ala, Thr, Phe, Cys,
      Gly or Asp

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Lys, Tyr, Arg, His or Phe

<400> 93
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 94
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Val, Ile, Ser, Ala, Thr, Phe, Cys,
      Gly or Asp

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Lys, Tyr, Arg, His or Phe

<400> 94
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 95

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Val, Ile, Ser, Ala, Thr, Phe, Cys,
      Gly or Asp

<221> VARIANT
<222> (11)...(11)
<223> Xaa = Llys, Tyr, Arg, His or Phe

<400> 95
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 96
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Ser, Thr, Gly, Asn,
      Cys, Phe or Asp

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Lys, Arg or His

<400> 96
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 97
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Ser, Thr, Gly, Asn,
      Cys, Phe or Asp

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Lys, Arg or His

<400> 97
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 98

```
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Ser, Thr, Gly, Asn,
      Cys, Phe or Asp

<221> VARIANT
<222> (10)...(10)
<223> Lys, Arg or His

<400> 98
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5                   10


<210> 99
<211> 11
<212> PRT
<213> Homo sapiens


<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa =Leu, Met, Ile, Val, Ala, Ser, Thr, Gly, Asn,
      Cys, Phe or Asp

<221> VARIANT
<222> (11)...(11)
<223> Lys, Arg or His

<400> 99
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5                   10


<210> 100
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Tyr, Phe or Trp

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Phe, Ile, Leu or Trp

<400> 100
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5

<210> 101
<211> 9
```

E2

```
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Tyr, Phe or Trp

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Phe, Ile, Leu or Trp

<400> 101
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5

<210> 102
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Tyr, Phe or Trp

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Phe, Ile, Leu or Trp

<400> 102
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5                   10

<210> 103
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Tyr, Phe or Trp

<221> VARIANT
<222> (11)...(11)
<223> Xaa = Phe, Ile, Leu or Trp

<400> 103
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5                   10

<210> 104
<211> 55
<212> PRT
<213> Homo sapiens
```

E2

```
<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ser, or Thr

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Lys or Arg

<400> 104
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5                   10                  15
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
                20                  25                  30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
        35                  40                  45
Xaa Xaa Xaa Xaa Xaa Xaa Xaa
   50                  55
```

E2